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RURAL HOUSING

A Selected List of References
Prepared for Postwar Planning
Groups in the Great Plains
Region

Compiled by Marion E. Wheeler

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THE UNIVERSITY OF CHICAGO
DEPARTMENT OF CHEMISTRY
RESEARCH REPORT NO. 1000
1955

RESEARCH REPORT NO. 1000

BY
J. H. GOLDSTEIN
AND
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DEPARTMENT OF CHEMISTRY
UNIVERSITY OF CHICAGO

The following is a summary of the results of the research reported in this paper. The study was conducted in the Department of Chemistry, University of Chicago, under the direction of Professor J. H. Goldstein. The research was supported by the National Science Foundation, Grant No. 1000. The results of the study are presented in the following sections: Introduction, Experimental, Results, and Discussion. The study was conducted over a period of six months, from January to June, 1955. The results of the study are presented in the following sections: Introduction, Experimental, Results, and Discussion. The study was conducted over a period of six months, from January to June, 1955. The results of the study are presented in the following sections: Introduction, Experimental, Results, and Discussion.

PREFACE

The references listed in this bibliography are available on loan from the Lincoln Branch of the U. S. Department of Agriculture Library. Many of the titles will also be found in the state agricultural college libraries in the Great Plains region.

Not all of the publications noted have been examined by the compiler. Many of the references and the annotations have been taken from Agricultural Economics Literature and from the Bibliography of Agriculture. The attention of individuals and groups using this list is directed to the Bibliography of Agriculture for current references on rural housing.

Appreciation is expressed for assistance given by Donald G. Hay, Bureau of Agricultural Economics, Ruby Wilder, University of Nebraska Library, Florence J. Atwood and Roy Hanson, Farm Security Administration, Margaret Fedde and Edna Noble, Nebraska College of Agriculture, and V. B. Fredenhagen and J. A. Muncey, Soil Conservation Service.

BIBLIOGRAPHIES

Bercaw, Louise O. Rural standards of living; a selected bibliography. 84 p. USDA Miscellaneous publication 116. 1931.

". . . Contains references to books, pamphlets, and periodical articles, dealing with the rural standards of living." Covers the period 1920 - 1930.

Loper, R. M., Comp. Housing bibliography. 4 p., processed. Lincoln, Nebraska, Agr. Ext. Serv., August 1, 1941

Publications listed under the following subjects: Planning, Construction, Mechanical equipment, Kitchen planning, Storage, Landscaping, Farmstead planning, Farm house repair, Miscellaneous.

Mather, Alan, Comp. Recent literature on low-cost housing. Pencil Points 21:552-554. September, 1940.

Nebraska. University. Home Economics Department. Household equipment bibliography. Lincoln, Nebraska, n.d.

The following subjects are listed: Refrigeration, Time and energy - working heights, Laundry equipment, Gas ranges, Electric ranges, Vacuum cleaners, Kerosene stoves, Small non-electric equipment, Care of equipment.

U. S. Dept. of agriculture. Rural housing. Functions and publications of the United States Department of Agriculture in the field of rural housing. 15 p., processed. Washington, D. C. April 1940; rev. June 1941.

Agencies discussed: Committee on Rural Housing, Extension Service, Bureau of Home Economics, Bureau of Agricultural Chemistry and Engineering, Forest Service, Farm Security Administration, Rural Electrification and Bureau of Agricultural Economics.

Publications listed under the headings: Surveys and Community Studies, Lists of Publications, Planning and Design, Preventing Damage by Insects, Rodents, Fires, Decay,, etc., Construction materials and methods, Utilities, Maintenance and Repair, Operation, Household Equipment and Furnishings.

U. S. Dept. of agriculture. Library. Bibliography of agriculture. Monthly. Washington, D. C.

This bibliography notes current references on the subject of rural housing.. In section J current periodical articles are listed under the following headings: General, Farmhouses, Service Buildings, Storage Structures, Farm Utilities, Materials and Methods.

Other references will be found by consulting the index for titles on Housing, Farmhouse(s), and Equipment, household.

U. S. Dept. of agriculture. Library. Milwaukee Branch. Bibliography on rural housing. 6 p., processed. Milwaukee, Wisconsin.

GENERAL

Alexander, W. W. The problem of rural housing. 11 p., processed. Washington, D. C. 1939.

An address delivered at the luncheon meeting of Institute of Citizenship, Atlanta, Georgia, Feb. 15, 1939. Issued by the Farm Security Administration.

This is one of the first statements calling attention to the rural housing problem.

American Academy of Political and Social Science. Annals, v.190. 285 p. Philadelphia, Pa. March 1937.

Partial contents: The land problem in relation to housing, by Arthur C. Holden, p. 50-59; Economic and social significance of housing design, by Miles L. Colean, p. 101-108; Development in home financing, by David L. Wickens, p. 75-83; Housing aspects of resettlement, by E. L. Kirkpatrick, p. 94-100; Consumption standards and housing, by J. Bion Philipsen, p. 120-130, Population growth and housing demand, by Warren S. Thompson, p. 131-137; The British housing program (based in large part upon material collected by Osborn S. Watson, U. S. Trade Commissioner, London, Eng.), by N. H. Engle, p. 191-204; Housing in the Netherlands, by Arie Keppler, p. 205-213; Forms of financial assistance to housing in Europe, by Ernest M. Fisher and Richard U. Ratcliff, p. 214-225; Bibliographical notes on housing, by Adolaid R. Hasse, p. 226-233.

Baldwin, C. B. Rural housing in 1942; the work of the Farm Security Administration. Housing yearbook 1943: 70-76. Chicago, Natl. Assoc. Housing Officials. 1943.

Deals with farm labor supply centers, their government, medical care and care of children; also the tenant purchase program.

Other articles on rural housing appearing in the Housing Yearbook include:

Housing activities and plans of the Resettlement Administration by R. G. Tugwell. 1936: 28-34.

A review of the Farm Security Administration housing activities, by W. W. Alexander. 1939: 139-150.

Rural housing--today and tomorrow. Based on the observations and activities of the Farm Security Administration. 1940: 180-194.

Farm Security Administration's sixth year in rural housing. 1941: 248-266.

Britton, Virginia. Housing of 299 Vermont village families. 52 p. Vt. Agr. Expt. Sta. Bul. 469. December 1940.

Information similar to that found in Bulletin 470 for village rather than farm families.

Britton, Virginia. Housing of 538 Vermont farm families. 39 p. Vt. Agr. Expt. Sta. Bul. 470. March 1941.

"... Studies the relationship of housing facilities, equipment, tenure, and housing, household operation, equipment, and total home expenses to the important variables of income, family type, education, age and tenure..."

Carter, D.G. Study of rural housing. 31 p. Ark. Agr. Expt. Sta. Bul. 364, 1938.

"Presents an analysis of the characteristics of plan and construction, the costs and values, and the relationships involved in the development of rural labor and materials."

Cottam, H.R. Housing and attitudes toward housing in rural Pennsylvania, 63 p., maps, diag. Pa. Agr. Expt. Sta. Bul. 436. 1942.

Crow, Ray. Program for postwar farm building. Agr. Engin. 23 (12):373-376. December 1942.

Ekblaw, K. J. T. Forecast: a bumper crop of farm building. Amer. Builder and Bldg. Age 65 (1): 49-51, 81-83. January 1943.

Average of \$3,000 per farm will provide \$20,000,000,000 total market. Immediate program calls for \$600,000,000 of essential repairs.

Farming; the nation's biggest industry now and after the war.

Prepared especially for the building industry by the editors of Practical Builder and Building Supply News. 8 p. 1943.

An analysis of the farm building situation and potential building market.

- Johanson, John P. One hundred new homesteads in the Red River Valley, North Dakota; a study of resettlement and rehabilitation of farm families. 50 p. illus. N. Dak. Agr. Expt. Sta. Bul. 304. June 1941.
The farm buildings are described and the attitude of the settlers concerning the type of barn and house construction noted. p. 41-50.
- John, M. E., Hiller, D. S. and Backenstose, D. L. Poorly-housed rural families of two Pennsylvania townships. 26 p. illus. Pa. Agr. Expt. Sta. Bul. 417. November 1941.
A study of the "shack-like dwellings" of rural Pennsylvania instigated to discover why they were built, what people live in them, where the people came from, and how they live.
- McAllister, Gilbert, and McAllister, Elisabeth G. Town and country planning; a study of physical environment: the prelude to post-war reconstruction... with a foreword by the Rt. Hon. Arthur Greenwood, M. P. 176 p. London, Faber. 1941.
Rural housing, p. 22-29.
- McVoy, Edgar C. and Nelson, Lowry. Satisfactions in living: farm versus village. 16 p. Minn. Agr. Expt. Sta. Bul. 370. June 1943.
- Nebraska. Agricultural advisory council. A unified state agricultural program to meet the impacts of war. 55 p., processed. Lincoln, Nebraska. June 1941.
The section on housing includes an analysis of the situation and recommendations. p. 48-49.
- North Dakota. Agricultural advisory council. Statement of the unified agricultural program of North Dakota for 1941. 36 p., processed. May 31, 1941.
Brief statement of policies and activities which should be carried out to improve rural housing conditions. p. 2.
- Northern Great Plains regional conference. Northern Great Plains regional summary of state land use planning reports on unified state programs to aid in national defense and meet the impacts of war. 80 p., processed. Lincoln, Nebraska. June 16-19, 1941.
A brief summary of the situation and the conclusions and recommendations. p. 5.
- Reid, M. G. Some factors affecting improvement in Iowa farm family housing. p. 326-361. Ia. Agr. Expt. Sta., Bul. 349, 1936.
In this study the Rural Social Science and Economics section cooperated with the Iowa State Planning Board.
- Reid, M. G. Status of farm housing in Iowa. p. 288-396, illus. Iowa Agr. Expt. Sta. Research Bul. 174, 1934.

Smith, Raymond C. The improvement of rural housing, An address by Raymond C. Smith, Chief Program analyst at the Thirty-fourth annual meeting of the American home economics association, Chicago, Ill. June 24, 1941. 11 p., processed. Washington, D. C. 1941.
Emphasizes the need for a rural housing program. Issued by the Bureau of Agricultural Economics.

South Dakota. Land use program committee. Unified agricultural program for South Dakota. Prepared...with the assistance of farm organizations - state and national groups. 60 p., processed. May 1941.
Chapter VII. Housing. Gives "The situation and essential facts" and "Recommendations and why", p. 42-45. Bibliography, p. 55-60.

Spiker, Larue, Rural housing conditions in an Illinois township. Social Serv. Rev. 15(1): 81-103. March 1941.
"The material used in this article is condensed from Miss Spiker's Master of Arts field study, of the School of Social Service Administration of the University of Chicago in 1940."
"This study of Central (fictitious name) Township was undertaken to determine conditions as to crowding and housing facilities in a rural and somewhat deteriorated township populated principally by native whites (located in west-central Illinois.) Because of the limitations in scope it perhaps does not show a picture that may be considered typical of rural Illinois, but it does reveal conditions that may be regarded as fairly general in certain economically poor agricultural regions in this and probably in many other states."

Standing, T. G. Importance of good housing to the social, moral, and physical development of the family. Assoc. South. Agr. Workers Proc. 43:37-38. 1942.

Regardless of the way in which it is financed, comprehensive rural housing program can be expected to yield enormous dividends in the form of increased health and happiness for millions of farm families.

Standing, T. G. The problem of rural housing in the South. Rural Sociol. 7(3): 267-275. Sept. 1942.

"Abstract. Numerous studies have indicated that a close relationship exists between the quality of housing and the health and morals of the population. There is evidence that, in general, the poorest housing in the United States is found in rural areas, particularly in the South.

The conviction is growing that a democratic society cannot afford to permit large numbers of citizens to live in conditions that are clearly detrimental to their welfare. This applies particularly to children, of whom a disproportionate number are found in the rural homes of the South.

"Programs for improvement of rural housing should recognize geographic cultural variations but the structure of the dwelling should be determined primarily by the needs of the family. An effective program of rural housing improvement will probably require some form of public subsidy. With proper planning such a program might well help to lessen the shock of conversion to a peacetime economy following the war."

A statement on two suggested solutions for the problem of farm unemployment and under-employment, by Raymond C. Smith...presented before the Senate committee on education and labor, Washington, D. C., May 24, 1940. 20 p. processed.

The two solutions suggested are: (1) A rural conservation works program, and (2) A rural housing program.

Swire, Florence M. Housing in rural America. Rural Sociol. 4(4): 449-457. December 1939.

A digest of the author's masters' thesis "Rural Housing in the U. S." Written under the direction of E. deS Brunner at Columbia University.

An analysis of data of the Farm Housing survey of 1934 which indicates that high percentages of houses lacking adequate facilities reveal the need for a long-term rural housing program. The point is made that "Rural housing is a field where government expenditures can stimulate employment in a wide range of depressed occupations and at the same time raise the farmers' standard of living."

U. S. Dept. of agriculture. Farm housing needs. 4 p., processed. Washington, D. C., July 13, 1939.

"These estimates are based on a survey of farm homes made in 1934 under the direction of the Bureau of Home Economics in cooperation with the Bureau of Agricultural Engineering."

U. S. Dept. of agriculture. Report of the Interbureau coordinating committee on rural housing. 35 p., processed. Washington, D. C. April 14, 1941.

"In this report the analysis of the need for rural housing has been approached mainly by taking inventory of the housing conditions as they exist, and by analyzing these conditions to estimate existing housing deficiencies based on generally accepted standards for decent living."

U. S. Dept. of agriculture. Interbureau committee on post-war programs. Agriculture when the war ends. 57 p., processed. Washington, D. C. October 15, 1943.

A statement of the general rural housing conditions that are expected to prevail when the war ends, p. 44-46.

U. S. Dept. of agriculture. Interbureau coordinating committee on post-defense programs. The need for rural housing. 12 p., charts, maps, processed. Washington, D. C., October 20, 1941.

"This report brings together most of the information available" on the conditions of rural homes.

U. S. Dept. of agriculture. Interbureau coordinating committee on post-war programs. The need for rural housing. Rev. 17 p., processed. Washington, D. C., July 1943.

Includes information available from the 1940 Census of Housing.

Contents.-Number of farm homes in the United States.-Measure of the need for better farm housing.-Some causes of the rural housing problem.-Conclusions: meeting the need.

U. S. Farm security administration. Rural housing. 14 p., processed.
Washington, D. C., May 9, 1941.

Discusses FSA's rural housing program under the following headings:

1. Construction in connection with national defense programs.
2. Construction in connection with regular FSA programs.
3. Management.

Wood, Edith Elmer. Introduction to housing; facts and principles. 161 p.
Washington, D. C., U. S. Housing Authority. 1939.

A simply written and authoritative discussion of basic housing facts and principles.

CENSUS

U. S. Bureau of home economics. The farm housing survey. 42 p.
USDA Miscellaneous publication 323. March 1939.

Bureau of Agricultural Engineering, the Extension Service and the Office of the Secretary cooperating.

The tables "are based on selected data from the farm-housing survey... carried on in January and February of 1934... The survey was designed to measure the potential demand for improved home facilities on farms." Contains information concerning the house, its equipment and needs for improvement.

U. S. Bureau of the Census. Sixteenth census of the United States: 1940. Housing... Washington, D. C., U. S. Govt. print. off., 1943.

Gives the following information on rural farm and non-farm housing; Vol. I. Data for small areas... Part 1 contains a summary for the United States as a whole and separate sections for the states, arranged alphabetically, from Alabama to Nebraska. Part 2 gives the statistics for the states from Nevada to Wyoming. Gives statistics for counties and townships. Rural-nonfarm and rural-farm statistics are given for total number of dwelling units classified by occupancy and tenure, color of occupants, number of units having more than 1.50 persons per room, state of repair, plumbing equipment, electric lighting, running water, and toilet facilities.

Vol. II. General Characteristics. Includes detailed statistics for states, including rural-nonfarm, and rural-farm areas of states, for counties, for rural-nonfarm and rural-farm parts of counties. Topics covered include size of household, value of rent of farm dwelling units, type of structure, exterior material, year built, number of rooms, number of persons per room, and housing facilities and equipment.

Vol. III. Characteristics by monthly rent or value. Part 1. U. S. Summary. Part 2. State statistics arranged alphabetically from Alabama to New Hampshire. Part 3. From New Jersey to Wyoming. The statistics form a basis for determining the relationship between rent or value and such characteristics as type and age of structure, state of repair, number of rooms, size of household and race of head of family, persons

per room, housing facilities and equipment, and mortgage status. Statistics for rural-farm and rural-nonfarm are given. No county statistics given.

Vol. IV. Mortgages on owner-occupied nonfarm homes. Gives some statistics for rural-nonfarm homes. Table I. Occupancy, tenure and mortgage status of urban and rural-non-farm dwelling units for the United States: 1940. Table II. Tenure of urban and rural-nonfarm homes, for the United States: 1890-1940.

U. S. Bureau of the Census. Sixteenth census of the United States: 1940. Population and housing. Families. Characteristics of rural-farm families. Regions and divisions. 82 p., processed. Washington, D. C., U. S. Govt. print.off., 1943.

"This report presents statistics on the characteristics of urban and rural-nonfarm families and heads of families in relation to monthly rent and family wage or salary income and receipt of other income in 1939. Dwelling units are classified by number of rooms and state of repair and plumbing equipment." Statistics given for the United States the four regions, including rural-nonfarm parts of the U. S. and regions.

COST AND STANDARD OF LIVING

Anderson, Anton H. and Peterson, Howard L. Survey of communities in Buffalo county, Nebraska. Issued by Buffalo County agricultural planning committee and Agricultural extension service in cooperation with U. S. Dept. of agriculture, Bureau of agricultural economics. 17 p., processed. June 1942.

Gives, for each community in the county, the percent of farmsteads occupied and the percent in poor condition.

Bondurant, Clair A. A study of one hundred Farm Security Administration grant families in Ellis county, Kansas, 1939. 48 p. Fort Hays, Kansas State College Studies, Gen. Series 3, Sociology Series no. 1 Hays, Kansas. 1941. In chapter four the living conditions of the families are discussed under the following headings: The House, Special Furnishing, Other Buildings, p. 28-33.

Foote, C. C., and Hay, D. G. Rural housing facilities of selected Farm Security Administration borrowers in North Dakota, South Dakota, Nebraska, and Kansas. 34 p., processed. Lincoln, Nebr.? U. S. Farm Security Administration. 1941?

In cooperation with U. S. Bureau of Agricultural Economics.

Report of a study of FSA borrowers in Region VII, in the fall and winter of 1939-40. Schedule information was collected by FSA home supervisors from 1998 farm families. The study was concerned primarily with housing conditions and characteristics.

Hunter, Starley M., Busche, L. M., Gallup, Gladys, and Wilson, M. C. Home Situations on different classes of land and effectiveness of the home demonstration program. 86 p., processed. Ind. Coop. Ext. work in Agriculture and Home Economics. Ext. studies Cir. 3. Lafayette, Indiana. May 1941.

In cooperation with U. S. Dept. of agriculture.

"A study of 234 rural homes in Parke county, Indiana, 1940"--Subtitle. Gives information on home situations of owners, tenants, and nonfarm families, on farms of different sizes, by income levels and in relation to education and age.

Kirkpatrick, E. L. Analysis of 70,000 rural rehabilitation families. 93 p. Social research report no. IX. Washington, D. C., The Farm Security Administration and Bureau of Agricultural Economics. August 1938. Family living, including size of dwelling in Colorado, Montana and Wyoming, is discussed. p. 56-58.

Kumlien, W. F., Loomis, Charles P., Bankert Zetta E., Brunner, Edmund deS., and MacNamara, Robert L. The standard of living of farm and village families in six South Dakota counties, 1935. S. D. Agr. Exp. Sta. Bul. 320. March 1938.

Chapter IV. The dwelling, its accessories, and its facilities.

Kyrk, Hazel, Monroe, Day, Brady, Rosenstiel, Colette, Rainboth, Family expenditures for housing and household operation. Five regions. 201 p. USDA Miscellaneous publication 457. 1941.

One of a series from the consumer purchases study presenting facts concerning patterns of farm families. "This volume deals with expenditures for housing and household operation of families living in the farm sections surveyed by the Bureau of Home Economics as a part of the consumer purchases study."

Kyrk, Hazel, Monroe, Day, Pennell, Rainboth, E. D. Family housing and facilities. Five regions. 223 p. USDA Miscellaneous publications 399. 1940.

"This volume presents a description of the housing of families at different income levels in the small cities, villages, and farm counties surveyed by the Bureau of Home Economics as a part of the consumer purchase study."

League of Nations. European conference on rural life 1939. General technical documentation. Rural housing and planning; Report prepared under the auspices of the Health committee. 58p. Geneva, League of Nations. May 1939.

Contents.-I. The rural house and its outbuildings: A. General measures taken to improve rural housing.-B. General rules for houses and their outbuildings.-C. Drinking-water in houses and outbuildings.-D. Disposal and treatment of human and animal dejects in dwellings and outbuildings.-E. Quantitative extent of improvement to rural houses and their outbuildings.-F. Training of sanitary enginners. II. Community planning. III. Area planning. Annexed notes.

Muse, Marianne. Farm families of two Vermont counties, their incomes and expenditures. Vt. Agr. Expt. Sta. Bul. 490. 48 p. June 1942.

"This bulletin deals chiefly with the makeup of 1,612 farm families located in Chittenden and Franklin counties, the incomes of 960 and the living expenses of 538 of them. Some facts are given concerning their homes, equipment and farms."

Oklahoma. Agricultural and mechanical college. Social science research council. A memorandum on research in income and levels of living in the South, by William H. Sewell. 30 p. Publication no. 3. Stillwater, Oklahoma. November 1940.

Peterson, George R. and Lyall, Lawrence B. Farm resources and farming systems needed to meet living needs of farm families in five type-of-farming areas. Part V: North central South Dakota. 24 p., processed. Lincoln, Nebraska March 1942.

See "Farm resources and farming systems..." below.

There is a section on Levels of Living on family size farms.

President's Conference on home building and home ownership. 11 Vols. Washington, D. C. 1931.

Following references to farm housing will be found in Volume VII: Farm housing and health, p. 174-188, and income p. 131-137, and national welfare p. 211-212; Needed research and education p. 219-235; rentals 130-131.

Rankin, J. O. Housing and house operation costs on Nebraska farms. 41 p. Nebraska Agr. Exp. Sta. Bul 264. November, 1931

"The present bulletin deals mainly with three aspects of farm housing: (1) size of house and household, (2) household conveniences, and (3) costs of housing and house operation."

Rankin, J. O. Nebraska farm homes; a comparison of some living conditions of owners, part-owners, and tenants. Nebr. Agr. Expt. Sta. Bul. 191. 48 p., illus. 1923.

"Additional data gathered from a survey of about 1,140 farms in Nebraska. ..comparing the farms of owners, part-owners, and tenants in the matters of housing, drainage, windbreaks, sites and views; gardens and fruits; farm building and water supply; power and lighting; and modern water; heating and lighting systems."

Rankin, J. O. and Hinman, H. A summary of the standard of living in Nebraska farm homes. 36 p. Nebr. Agr. Expt. Sta. Bul. 267.

The section entitled "The value of family living and factors affecting it" includes rental value of house, furniture and furnishings and operation goods.

Rankin, J. O. A thousand Nebraska farm families and their homes in ten survey areas. 18 p., processed. Washington, D. C. U. S. Bur of Agr. Economics, 1924.

The following subjects are discussed: "(1) the farm family, (2) its housing conditions, including the house itself, its surroundings, and its equipment ... and (3) the relation of the family to the community and the rest of humankind."

Richardson, Jessie E. The quality of living in Montana farm homes, from accounts kept by forty families during the year 1929-30. 45 p. Montana Agr. Expt. Sta. Bul. 260. April 1932.

Information on housing, furniture and equipment and operating expenses. p. 30-34.

Rush, D.R. and Larson, O. F. Farm resources and farming systems needed to meet living needs of farm families in five type-of-farming areas. Part I - summary. 16 p., processed. Washington, D. C. March 1942.

This report is made up of a group of six separate sections, issued by the Washington and regional offices of the Bureau of Agricultural Economics. Includes information on household operating and furnishings.

Rural family spending and saving in wartime. 163 p. USDA Miscellaneous publication 520. Washington, D. C. June 1943.

"The main purpose (of the study) was to obtain estimates of the way consumers distribute their incomes among various consumption goods and various forms of savings and to provide estimates for each income level within the three population groups, urban, rural-nonfarm, and farm..."

"The separate consideration of urban and rural residence in this study adds to the value of the data in connection with specific problems."

Among the tables of interest are: No. 14. Value of housing of rural farm families; No. 15. Value of housing of rural farm families in 1941, by tenure; No. 16. Value of housing of rural nonfarm families; No. 17. Value of housing of rural nonfarm families in 1941, by tenure; No. 18. Expenditures for family homes of owners and renters in 1941, rural nonfarm families.

U. S. Bureau of human nutrition and home economics. Wartime family living. Annual outlook issue: Autumn 1943. 48 p., processed. Washington, D. C. October 1943.

The section on the Farm Home includes the following topics: Is the real value of the farm home higher in 1943; What farm families have been spending to better their homes; The outlook for farm homes; Furnishings and equipment for the farm home.

U. S. Bureau of labor statistics. Housing under Farm Security Administration. U. S. Dept. Labor. Bur. Labor Statis. Monthly Labor Review 49(3): 636-37. Sept. 1939.

Reproduction of an FSA press release dated July 25, 1939. Includes data by type of house, region, and state. A table of the number of dwelling units and costs under FSA program, 1938-39 is included.

U. S. Farm Security Administration, Region III. Rich land - poor people. 62 p., processed. Indianapolis, Indiana.

This is a study of the social and economic conditions in southeast Missouri.

In Chapter V, "How the people live", there is a section on "The houses in which they live," p. 40-43 and "Their sanitary facilities" p. 43-45.

Willson, E. A. Incomes and cost of living of farm families in North Dakota 1923-1931. 31 p. No. Dak. Agr. Expt. Sta. Bul. 271. June 1933.

FINANCING

Note: There is a provision in the National Housing Act which provides for financing loans for the repair of farm buildings in Title 12, U.S.C.A. App., Section 1703, Subsection (a).

Provision is made in Section 1709, Subsection (d), Title 12, for insurance of mortgages "which (A) covers a farm upon which a farm house or other farm buildings are to be constructed or repaired..."--Memorandum from C. L. Stewart, Acting Regional Attorney, Office of the Solicitor, U. S. Dept. of Agriculture, to Marion Wheeler, Librarian, Lincoln, Nebr. January 12, 1944.

Central housing committee. Activities and organization of federal agencies concerned with housing. 17 p., processed. Washington, D. C. Central housing committee. 1936.

This pamphlet contains: A. Organization charts of Government housing agencies grouped according to new construction and financing and according to low-cost housing and other housing activities.

B. Summaries showing the purpose, scope, method of operation and accomplishments of the Farm Credit Administration, Federal Home Loan Bank Board, Federal Housing Administration, Public Works Administration (Housing Division), Resettlement Administration. C. Financing policy of the housing agencies noted under "B" and also that of the Reconstruction Finance Corporation.

The Farm Credit Administration is shown to be concerned with the financing of farm housing, and the Resettlement Administration with the construction of rural housing.

Schoenfeld, Margaret H. State housing legislation at the end of 1936. Monthly Labor Rev. 44(2): 386-396. February 1937.

Under the heading "Special Laws" the following is noted: "The Land-Chest Law of California is framed to make low-cost housing possible in rural and suburban areas through nonprofit corporations under the supervision of the State. Projects are subject to taxation and no statement is made in the law as to powers of condemnation and duration of terms."

A tabular analysis on pp. 390-396 "shows in condensed form the major provisions of the housing laws that have been reviewed."

Steed, F. Streeton. The way to get cottages in the country. Land Union Journal 40(1): 15-18. January 1943.

Urges "a Rural Housing Corporation to undertake this immense programme. Briefly, this would be in the nature of a public utility undertaking operating on a non-profitmaking basis, and charged with specific task of housing the rural worker.

"This new body would receive the assistance of the Government grants available for housing purposes, which are now paid to the local authorities!"

U. S. Extension Service. Services offered by agencies of the government concerned with better housing on farms, in villages, in towns. 18 p. Washington, D. C. 1941.

Describes the services of the following agencies: Farm Credit Administration; Federal Housing Administration; Farm Security Administration; Federal Home Loan Bank System; Rural Electrification Administration; Electric Home and Farm Authority; Extension Service and the State agricultural colleges cooperating; and Vocational Education Division, U. S. Office of Education and State Boards of Vocational Education cooperating.

U. S. Farm Credit Administration. Mortgage loans on part-time or full-time farms where dependable outside income is available. 4 p. Circular 30. Kansas City, Mo. August, 1943.

Loans may be made for "construction of necessary building and fencing; to provide any other improvements necessary for the operation of the property."

U.S. Federal Housing Administration. FHA insured farm loans. Leaflet FHA form no. 2368. Washington, U. S. Govt. Print. off. n.d.

FHA-insured mortgages may be used to build or repair houses, barns, sheds, poultry houses, silos, and other farm structures.

U.S. Federal Housing Administration. Farm mortgage insurance. Administrative rules and regulations under section 203(d) of the National Housing Act (as amended February 3, 1938). Effective May 16, 1938. 21 p. FHA form no. 2011. Washington, U. S. Govt. print. off. 1938.

U. S. Federal Housing Administration. Open this door to farm property improvement. 32 p., illus. FHA 136, 2nd ed. Washington, D. C., U. S. Govt. print. off. 1935.

Tells how repairs and renovation of farm buildings may be financed under the provisions of Title I of the National Housing Act.

U. S. Federal public housing authority. Directory of local housing authorities as of Feb. 1, 1943. 32 p. Washington, D. C. 1943.

A list of local housing authorities, arranged alphabetically by states and cities, giving street addresses.

U. S. Housing Authority. Rural Housing. 11 p. Washington, D. C. 1940. A descriptive pamphlet on how the rural housing program works.

U. S. Information Service. Housing road map for farms and villages. Folder. Washington, D. C., U. S. Govt. print. off. 1941.

Lists the government agencies which can help farmers to obtain a new farm or home, farm buildings, modernization or repairs and home equipment. Tells what their services are and where to apply.

Wickens, David L. Differentials in housing costs. Natl. Bur. Econ. Research Bul. 75, 15 p. Sept. 17, 1939.

"This bulletin is concerned primarily with the measurement of ... differentials, present quantitative estimates, many of which have hitherto been unavailable. It is based largely on Residential Real Estate to be published by the National Bureau of Economic Research. It seeks to show the dollar costs of existing housing; in which sections of the country and types of cities or suburban areas housing is cheapest, in which most expensive, how costs of urban dwellings compare with rural; the costs of old and new houses and of various types of structures, such as apartments, two-family, and single-family dwellings.

"Section 1 of this bulletin emphasizes differentials according to geographic regions and according to density of population. The inter-relationship between these differentials is discussed and their relative significance indicated.. Section 2 describes other factors that aid in their explanation and interpretation." - p.1.

FOREIGN LEGISLATION AND EXPERIENCE

Agricultural workers' housing fund in Estonia. Indus. and Labour Inform. 71(6): 201-202. Aug. 7, 1939.

"With a view to improving the housing conditions of agricultural workers, the Estonian Parliament has recently passed an Act setting up an agricultural workers' housing fund. The Act came into force on 12 May 1939. A summary of its main provisions is given..."

Bromage, Arthur W., and Bromage, Mary C. The housing program in Ireland. Social Serv. Rev. 16 (3): 497-519. Sept. 1942.

Government programs for housing improvement in Ireland. Some attention is given to the rural housing program, p. 505-506.

Graham, John Jr. Housing in Scandinavia, urban and rural. 223 pp. Chapel Hill, The University of North Carolina Press, 1940.

Achievements made in urban housing and rural resettlement by the Scandinavian countries before the war.

Chapter 4, Rural Housing and Colonization, contains the following sections: Denmark's small farm holdings, pp. 154-170; Sweden's diversified rural program, pp. 170-185; Colonization in Finland, pp. 186-199; Resettlement in Norway, pp. 199-208.

Housing for agricultural workers in Latvia. Indus. and Labour Inform. 66(7): 186-187. May 16, 1938.

The Rigasche Rundschau, April 27, 1938, is quoted on the act recently passed by the Latvian Cabinet "to provide for the constitution of a special fund for granting credits on advantageous terms for the construction of dwellings for agricultural workers."

Housing of agricultural workers in Poland. Indus. and Labour Inform. 64 (10): 366. December 6, 1937.

A ministerial Order of October 12, 1937 "provides that dwellings made available by the employer for agricultural and forestry workers must consist of at least one main room and a smaller room of a total minimum

area of 25 square metres. If there is no kitchen, a stove must be provided. Unmarried...workers must be housed...in premises which are large enough to allow each worker an area of 4 square metres. The Order also contains provisions regarding the health conditions of the dwellings." It will come into force on April 1, 1938.

League of Nations. Urban and rural housing. Geneva: The League, 1939
159 pp.

The rural housing policy of Belgium, the United Kingdom, Denmark, Finland, France, the Netherlands, Norway and Sweden is discussed.

Low-cost housing for workers in Colombia, 1942. U. S. Dept. Labor. Bur.
Labor Statis. Monthly Labor Rev. 54(4): 964-967. April 1942.

How poor families in rural districts may obtain loans is explained briefly in two paragraphs on p. 966-967.

Reich fund for the provision of agricultural labourers' dwellings.
News in Brief 5(18-19): 179-180. October 5, 1937.

A brief account of the provision of funds for the building and repairing of living quarters for agricultural workers.

Report on rural housing in Scotland. Scot. Jour. Agr. 20(3): 290-294.
July 1937.

Outlines the conclusions and recommendations of the Scottish Housing Advisory Committee.

Shears, R. T. Housing the rural worker: progress of reconditioning in Devon.
Gt. Brit. Min. Agr. Jour. 42(6): 542-550. September 1935.

Under the Housing (Rural Workers) Act, 1926, 1,200 dwellings have been reconditioned in Devonshire. "Work is in progress on a further 150, whilst provisional approval has been given in regard to 60 others." The extent and conditions of the grant are explained. The cost of the Devon scheme is estimated, and a number of illustrations show groups of re-conditioned cottages.

Shears, R. T. Housing the rural worker. Gt. Brit. Min. Agr. Jour. 56(4):
318-329. July 1939.

The writer outlines the provisions of the Housing (Rural Workers) Acts, and the Housing (Financial Provisions) Act, 1938, and the progress made under the Acts.

HOUSING STANDARDS

Plans - Dwellings

Ashby, Wallace. Farmhouse plans. 70 p., illus. USDA Farmers' Bulletin
1738. March 1935.

"The principal purpose of this bulletin is to supply plans for low-cost farm dwellings designed to meet the requirements of the farm operator and his family". Plans are shown for the Southwest, South, Middle West, North, New England, and the Northwest.

- Ashby, Wallace and Nash, Walter H. Modernizing farmhouses. 62-p., illus. Farmers' Bulletin 1749. 1936
 "This bulletin presents examples of modernizing that have been accomplished, alternate plans for some of these situations, and plans for some typical conditions not represented by the other examples."
- Carter, D. G. Farm buildings of tomorrow. Capper's Farmer 54(10): 12-13, 21. October 1943.
 Changes in design and use of materials in the post-war period.
- Dinwiddie, Emily. Suggested housing standards for families of low income. Journal of Home Economics 19(8): 444-450. August 1927.
- Homes for farmers. Public Housing 3(5) February 1942.
 The rural housing program of Federal Public Housing Authority. Lists 288 counties where FPFA farm homes were built. None of the Great Plains states are listed.
- Hopfen, H. J. Improvements in rural building. Internatl. Inst. Agr. Monthly Bul. Agr. Sci. and Pract. Reprint from International Rev. Agr. 33(3): 110T-122T. March 1942.
 Possibilities of developing rural construction are examined in relation to the following: Disposal of the different rooms, arrangement of the buildings, their height, roof structure, structure of wall and ceilings, choice of building material and interior installations.
- Hudson, A. Clark. Architected homes for American farms. Agr. Engin. 22(10): 344, 349. October 1941.
 "Paper presented before the Farm Structures Division at the annual meeting of the American Society of Agricultural Engineers at Knoxville, Tenn., June, 1941."
 States that "There is a great need for educating farm people to a better appreciation of good design and a higher standard of housing, as well as providing them with the services which will make these higher standards available. Most farm people realize that they need better facilities, but they should have guidance as to the best way to meet these needs."
- Loper, R. M. Farm house planning. 2 p., processed. Neb. Agr. Ext. Serv. Circ. 714. April 1941.
 Nineteen points to keep in mind when planning farm homes.
- Monson, O. W. Housing farm laborers. 16 p., illus. Mont. Agr. Ext. Serv. Bul. 219. April 1943.
 Gives "Recommended minimum requirements for a farm house" and plans for bunk house and bath house including bill of materials.
- Montana farm house plans. 4 p. Mont. Ext. Serv. Circ. 72. January 1935.
 Descriptive price list of farm house plans available from the Montana Extension Service. There are two groups, the first prepared by the College in cooperation with the division of Rural Rehabilitation of the Montana Relief Commission, and the second from Farmers' Bulletin 1738.

Rankin, J. O. Housing and house operation costs on Nebraska farms.

41 p. Nebr. Agr. Expt. Sta. Bul. 264. November 1931.

"The present bulletin deals mainly with three aspects of farm housing:

(1) Size of house and household, (2) Household conveniences, and (3) Costs of housing and house operation."

300 years of American houses. Amer. Lumberman, no. 3260, p. 49-54, 57-58, 61-62, 63, 67-68, 70, 176-178, 181-182, 184-186. July 10, 1943.

Discussion of the design and building materials of farmhouses.

U. S. Farm Security Administration. Small houses. 16 p., illus.

Washington, D. C., U. S. Govt. print. off., 1939.

Floor plans, interior and exterior views, and construction outlines of prefabricated farm homes. The plans were designed for the southern states.

U. S. Farm Security Administration. Office of engineers. District VII. Farm Building plans. 96 p., processed. Second ed. Denver, Colorado. March, 1943.

"This booklet contains sketches of farmstead improvements developed by the Farm Security Administration of the U. S. Dept. of Agriculture. It has been prepared primarily to assist FSA borrowers in selecting a suitable farm home, outbuildings and other facilities."

U. S. Federal Housing Administration. Principles of planning small houses. 44 p., illus. USDA Technical bulletin 4. Rev. July 1, 1940.

"Experience has demonstrated that the planning of well-designed livable houses that can be built economically is based upon a few fundamental principles... The purpose of this booklet is to show how these principles may be applied to a few basic plans and the plans adjusted or varied to meet individual requirements, desires or conditions."

U. S. Resettlement Administration. Houses. 28 p. 1937.

Reprint from the June 1937 issue of The Architectural Forum.

Illustrations and plans of houses in rural and semi-rural areas.

Houses in Alabama, Arizona, Arkansas, Michigan, Minnesota, New Jersey, North Carolina, South Carolina, Tennessee, Virginia, West Virginia are illustrated.

White house conference on children in a democracy. Final report.

392 p. Washington, D. C. January 18-20, 1940.

Special functional requirements for farm houses. p. 319-320.

Wilson, Maud. Housing requirements for farm families in the United States.

39 p. USDA Miscellaneous publication 322. 1939.

The report deals with farmhouse requirements as to construction, orientation, room uses, entrance protection, doors and windows, heating, sanitary facilities, storage facilities, use of basement, dining areas, provisions for child care, indoor sleeping arrangements, provisions for leisure activities and outdoor life. Attention is given to regional variations in these housing requirements.

Plans - Farm Structures

Carter, Deane G. and Foster, W. A. Farm buildings. Ec. 3. 404 p. New York, John Wiley & Sons, inc., 1941.

Contents.-I. Introduction.-II. Economics and costs of farm buildings.-III. Building materials: lumber and logs.-IV. Concrete: other masonry.-V. Miscellaneous building materials.-VI. Structural requirements.-VII. The structure of farm buildings.-VIII. Cost and quantity calculation.-IX. Arrangement and location of farm buildings.-X. Environmental conditions in farm buildings.-XI. Farm barns: general purpose barns.-XII. Dairy barns.-XIII. Special purpose barns.-XIV. Poultry housing.-XV. Swine housing.-XVI. Silos.-XVII. Grain and hay storage.-XVIII. Storage and Service buildings.-XIX. Farm housing conditions and needs.-XX. Farmhouse planning.-XXI. Kitchens and storage equipment.-XXII. House construction: general problems.-XXIII. Specifications: details of house construction.-XXIV. House remodeling.

There is a bibliography on p. 393.

The chartered surveyor's institution. ...Memorandum of evidence by the council of the chartered surveyors' institution to the Farm buildings committee. Ministry of agriculture and fisheries on the layout, design and construction of farm buildings after the war.

12 p. processed. London, England: March 1943.

Fenton, F. C. and Otis, C. K. The design of barns to withstand wind loads. 76 p. illus., Kans. Eng. Expt. Sta. Bul, 42. Manhattan, November 1, 1941. "This bulletin reports the results of an investigation of: (1) The loads imposed on the more common shapes of barn roofs by winds of different velocities. (2) The design of practical barn framing with an adequate factor of safety to withstand these loads."

Fitch, J. B. and Hillman, V. R. Dairy buildings for Kansas. 45 p., illus. Kan. Agr. Exp. Sta. 236. November 1925
Includes diagrams and construction detail.

Loper, R. M. Farm buildings for Nebraska. 79 p., diags.. Nebr. Agr. Exp. Serv. Circ. 722, Rev. 1929.

"A description and price list of the plans prepared and approved by the Department of Agricultural Engineering, College of Agriculture, University of Nebraska."-Subtitle.

Includes houses, all types of farm buildings and equipment as well as plans for farmsteads.

Circular 722 a, dated January 1942, is a price list of plans for various types of farm structures.

McColly, H. F. and Moore, E. Farm poultry housing. 18 p., illus. No. Dak. Agr. Ext. Serv. Circ. 153. March 1937.

- Murdock, H. E. Farm buildings, 32 p., illus. Mont. Agr. Expt. Sta. Circ. 131. January 1926.
The object of this circular is "to point out the important things to be considered in building and to offer some suggestive plans."
- Fatty, Ralph L. Farm building ventilation. 12 p., illus. So. Dak. Ext. Serv. Circ. 31. April 1920.
"The plans show how satisfactory homemade ventilating systems can be installed."
- Fatty, Ralph L. Poultry houses for South Dakota. 29 p., illus. So. Dak. Ext. Serv. Circ. 362. March 1937.
Includes instructions for rammed earth construction.
- U. S. Dept. of agriculture. Plans of farm buildings for western states. 120 p., illus. USDA Miscellaneous publication 319. 1939.
Contains plans for 16 types of dwellings besides many plans for buildings other than dwellings. There is a list of other U. S. Dept. of agriculture publications on construction details.
- U. S. Farm security administration. Region 7. General construction... plans, processed. Lincoln, Nebr., n.d.
Plans prepared by the Engineering Division for homes and farm structures in Nebraska, Kansas, North and South Dakota. There is a minimum costs sheet for Kansas and Nebraska and one for North and South Dakota.
- Ward, W. G., Caulfield, W. J., and Larson, Tom. Milk houses for Kansas. 19 p., illus. Kan. Ext. Serv. Circ. 74, rev. July 1942.
"Helpful suggestions for Kansas dairymen in building new and remodeling old milk houses."
- Ward, W. G. and Seaton, M. A. Kansas straw-loft poultry house. folder. Kan. Ext. Serv. Circ. 144. Rev. June 1942.
Inside of the folder are plans showing complete details. There is also a bill of material.
- Wooley, John C. Farm buildings. 345 p., illus. New York, McGraw-Hill book company, inc., 1941.
Contents.-Part I. General.-Part II. Building materials.-Part III. Structural design.-Part IV. Air conditioning farm buildings.-Part V. Livestock and poultry buildings.-Part VI. Buildings for storage.-Part VII. The management of existing buildings.-Part VIII. The farm home.-Part IX. Drafting.

Materials

- American houses, inc. Prefabrication explained. 16 p., New York, N. Y. 1943.
Prepared by American Houses, inc. as an answer to the many inquiries about prefabrication in the post-war period.

- Betts, M. C. and Miller, T. A. H. Rammed earth walls for buildings. 23 p., illus. USDA Farmers' Bulletin 1500. Rev. May 1937.
 "Contents of this bulletin were abstracted chiefly from accounts of experimental work in England."
- Fenton, F.C. The use of earth as a building material. 34 p., illus. Kans. Eng. Expt. Sta. Bul. 41. Manhattan, September 1, 1941.
- Glenn, H. E. Rammed earth building construction. 18 p. Clemson Agr. Coll. Eng. Expt. Sta. Bul. 3. 1943.
- Legault, A. R. Waterproofing of adobe tested to extend its use into the rainy areas of the state. Colo. Agr. Expt. Sta. Colo. Farm Bul. 5(3): 13-15. July/September, 1943.
 Investigations carried on by the Civil Engineering Section of the experiment station on the use of Colorado soils for making building blocks.
- Long, J. D. Farm structures prefabrication. Agr. Engin. 24(1): 8,10. Jan. 1943.
 Points out the importance of recognizing "the principles, current growth and future possibilities of prefabrication" for "It may safely be stated that prefabrication in the farm field is here to stay. It will not supplant conventional construction, but it will prove a worthy competitor in some items of farm construction because it renders a distinct service to the farmer."
- Miller, Thos. A. H. The use of logs and poles in farm construction. 27 p., illus. USDA Farmers' bulletin 1660. 1939.
- Patty, R. L. and Minium, L. W. Rammed earth walls for farm buildings. 67 p., illus. S. Dak. Agr. Expt. Sta. Bul. 277. April 1933.
 The purpose of this experimental study of "pise" construction was to secure definite and reliable information--concerning its use in South Dakota.
 A short list of references is given on page 3.
- Portland Cement Association. Concrete facts for contractors. 48 p. illus. Chicago, n.d.
- Prefabrication and war housing. Insured Mortgage Portfolio 6(3): 17-19, 37-38. First quarter 1942. (U. S. Federal Housing Administration)
 The dimensions of the new prefabrication industry and the effects of its transition to war housing.
- Sjogren, J. W. and Adams, J. W. Adobe brick for farm buildings. 28 p., illus. Colo. Agr. Expt. Sta. Bul. 308. April 1926.
 "The purpose of this bulletin...is to describe a simple method of making adobe bricks and of laying them in the wall."

Sweet, C. V. and Johnson, R.P.A. Selection of lumber for farm and home buildings. 45 p., illus., USDA Farmers' bulletin 1756. April 1936.

"This publication aims to assist in a careful estimation of the essential requirements for different building purposes, to show how the different kinds of woods meet these specific requirements, and to emphasize some of the principles frequently overlooked that should be followed in good construction."

U. S. Farm Security Administration. Experiments in rammed earth construction. 13 p., processed. Washington, D. C.? November 1, 1938.

The experiments were conducted in Alabama but many of the observations on this type of construction are applicable to other parts of the country as investigation showed "that suitable earth was available almost everywhere in this country."

There is also a one page release entitled "Statement on condition of rammed earth houses" dated May 1940.

U. S. Federal Housing Administration. Minimum construction requirements for new dwellings located (in various states). Washington, D. C., U. S. Govt. print. off., 1939-1941.

Located in the state of Colorado. 24 p. FHA form no. 2336. Rev. March 1, 1940.

Located in the state of Nebraska. 24 p. FHA form no. 2351. Rev. June 15, 1940.

Located in the state of Kansas. 23 p. FHA form no. 2335. Rev. June 1, 1938.

Located in the state of North Dakota. 23 p. FHA form no. 2357. April 15, 1939.

Located in the state of Montana. 23 p. FHA form no. 2356. Effective May 15, 1938.

Located in the state of South Dakota. 24 p. FHA form no. 2354. Rev. April 15, 1941.

Located in the state of Wyoming. 23 p. FHA form no. 2355. Rev. September 15, 1940.

Minimum standards of construction to be applied to all new construction on which the mortgage is insured by the Federal Housing Administration.

The standards incorporate the recommendations of the National Bureau of standards, U. S. Dept. of Agriculture, and the Public Health Service.

Includes masonry, excavation, foundations, exterior masonry walls, chimneys, cement floors, driveways and walks, exterior walls, interior partitions, stairs, roof coverings, termite prevention, heating, plumbing, electrical work.

Modern Conveniences - Heating the farm home.

Betts, B. G. Thermal insulation of houses. 31 p., illus. Purdue Univ. Better homes in America. Home Information Service Bul. 4. Lafayette, Indiana. February 1936.

Discusses thermal insulation, types of insulation, how insulation is used, keeping houses warmer in winter and cooler in summer.

Hoffman, J. V. Insulation for house construction. 31 p., illus. Purdue Univ. Eng. Ext. Dept. Ext. Ser. 31. July 1933
Emphasizes the importance of good construction in providing adequate insulation.

Senner, Arthur. Heating the farm home. 18 p., illus. USDA Farmers' bulletin 1698. 1939

"In this bulletin the requirements that should be met and the characteristics of different types of heating systems are discussed, and advice is given on selecting heating plants for farm homes and on ways of conserving heat."

Modern Conveniences - Kitchen

Carter, D. G. Studies in the design of kitchens and kitchen equipment. 31 p., illus. Ark. Agr. Expt. Sta. Bul. 276, 1932.

Cushman, E. M. The development of a successful kitchen. 44 p. Cornell Ext. Serv. Bul. 354. 1936.

Goodman, B. Planning modern farm kitchens. 27 p. Okl. Agr. Ext. Serv. Circ. 355. 1940 Rev.

Muse, M. Kitchen equipment and arrangement. 59 p., illus. Vt. Agr. Expt. Sta. Bul. 375, 1934.

Redfield, G. M. A study of efficient kitchen arrangements. 292 p., illus. Purdue Agr. Expt. Sta. Bul. 418. April 1937.

Wilson, M. Planning the kitchen. 32 p., illus. Ore. Agr. Expt. Sta. Circ. 131. 1939.

Modern Conveniences - Lighting the Farm Home

Electric light for the farmstead. 58 p., illus. USDA Farmers' bulletin 1838. July 1940.

Contents.-Essentials for good lighting.-Wiring for good lighting.-Light for the farmhouse.-Remodeling old lighting installations and equipment.-Yard lighting.-Lighting the farm buildings.-Planning lighting for farm buildings.

Farm electrification data by states. 1942 compared with 1940. Edison Elect. Inst. Rural Electrification Bul. 1(2):36. June 1943.

Logan, C.A. Farm lighting systems. 57 p., illus. Kan. State Agr. Col. Bul. 16(7) Manhattan, 1932.

Neff, G. C. The farmer and his electricity. Edison Elec. Inst. Bul. 11: 227-229, 252. August 1943.

Discussion of the development of rural electrification and the need for post-war planning.

Ross, W. A., Beard, W. P., Deiss, Jay and Prickett, Lee C. Building electrical equipment for the farm. 97 p., illus. U. S. Office of education. Vocational education bulletin no. 209. Agricultural series no. 64. Washington, D. C., U. S. Govt. print. off., 1940.

Offers systematic instruction on building a poultry water warmer, ultra-violet reflector, pig brooder, hotbed, stock-tank heater, portable motor, motor dolly, chick brooder, exhaust fan, room-cooling and garden-irrigating device.

U. S. Rural Electrification Administration. Lighting equipment for the farm and farm home. 4 p., illus. Washington, U. S. Govt. Print. Off., 1938. Leaflet containing illustrations of better lighting equipment for farm homes.

U. S. Rural Electrification Administration. Wiring your farm and home. 11 p., illus. Washington, U.S. Govt. print. off., n.d. Emphasize importance of well planned wiring.

Modern Conveniences - Storage

Forest B. Clothes closets and their equipment. 11 p. Wyo. Agr. Ext. Circ. 55. 1934.

Lindstrom, Ellen and Martens, Rachel. Storage in rural homes. 42 p., illus. Kan. Ext. Serv. Circ. 141. April 1940.

"Good storage results in conservation of materials, conservation of human energy, and happier family life." This bulletin suggests ways and means of providing additional storage space.

Wilson, Maude, Dodge, J. Robert and Edwards, Elma. Closets and storage spaces. 21 p., illus. USDA Farmers' bulletin 1865. November 1940.

Modern Conveniences - Water Supply and Sewage Disposal Systems

Government survey to show need for plumbing and heating; reports on housing conditions in farm and rural districts. Domestic engineering 143:34-35. April 1943.

Hoff, Paul R. and Young, H. J. Farm sewage disposal. 14 p., illus. Nebr. Agr. Ext. Serv. Circ. 703. Feb. 1931. Recommends use of septic tanks, and explains their installation.

Murdock, H. E. The domestic water supply on the farm. 24 p., illus. Mont. Ext. Serv. Circ. 91. May 1928. Wells, cisterns, and water supply systems described and illustrated.

Patty, Ralph L. A septic tank for farm sewage disposal. 15 p., diag. So. Dak. Ext. Serv. Circ. 307. June 1931. Detailed instructions for installing septic tanks.

U. S. Farm Security Administration. Safe water supplies for farm homes. 5 p., processed. n.d.

Water supply systems and well construction discussed briefly.

U.S. Farm Security Administration. The sanitary privy for farm homes. 4 p., processed. n.d.

Instructions and illustrations on privy construction.

U.S. Rural Electrification Administration. Planning for farm plumbing. 32 p., illus. Washington, D. C. U. S. Govt. print. off., n.d.

Describes procedure for financing modern plumbing in the farm home and provides help in planning a complete farm plumbing installation.

U. S. Soil conservation service. Engineering handbook, land development. 3 Vols., processed. Washington, D. C., 1939-1940.

These handbooks were prepared by the Engineering Division, T. B. Chambers, Chief. The three noted below are of particular interest in connection with rural housing planning:

Section 2. Specifications for recommended building practices. 74 p., SCS-ED-3b

Section 4. Sanitary standards for rural water supplies and systems. 51 p., illus. SCS-ED-3d.

Section 5. Sanitary standards for disposal of sewage and domestic wastes in rural areas. 36 p., illus. SCS-ED-3e.

Warren, George M. Farm plumbing. 22 p., illus. USDA Farmers' bulletin 1942. 1937.

"For the farmer plumber and for those who desire to follow the work on which a regular plumber is employed."-Preface.

Warren, George M. Sewage and sewerage of farm homes. USDA Farmers' bulletin 1227. 46 p., illus. 1938.

Emphasis basic principles of sanitation and gives directions for constructing and operating home sewerage works that are simple, serviceable and safe.

Warren, George M. Farmstead water supply. 38 p., illus. USDA Farmers' bulletin 1448. June 1933.

"The aim of this bulletin is to give...information concerning sanitary and engineering principles underlying safe, serviceable and lasting water systems for farm homes."-Preface.

Wright, Forrest B. Rural water supply and sanitation. 288p., illus. New York, John Wiley & Sons, inc. 1939.

"The book includes instruction on the more common jobs connected with water supply, sewage disposal, and sanitation..."

Modern Conveniences - Miscellaneous

Carvor, Wayne. The home locker: low temperature storage units will be an important post-war product. Refrig. Engin. 46: 157-161, 179. Sept. 1943.

- Roberts, Evelyn H., Wilson Maud, Thayer, Ruth. Standards for working-surface heights and other space units of the dwelling. 39 p., illus. Oregon Agr. Expt. Sta. Bul. 348. June 1937.
 "The object in the study described in this publication is to supply some of the information required in setting up standards for the dimensions of the parts of the house that are used mainly by women."
- Rau, R. R. and Shaw, W. F. Selling home furnishings; a training program. 275 p., illus. U. S. Office of Education. Vocational Division Bulletin 216. Washington, D. C. 1941.
 Contains information on characteristics of furniture, rugs, draperies, etc. There is a selected list of references at the conclusion of each unit.
- U. S. Farm Security Administration. Household furniture and domestic equipment. 40 p. Washington, U.S.Govt.print.off., 1940.
 Contains illustrations of chairs, day beds, tables, beds, chests, etc.
- U.S. Farm Security Administration. A simple plan for screening the farm home. 3 p., processed. Washington, D. C., n.d.
 Instructions on screening methods; drawings and comments.
- Wood, Ivan D. Suggestions for added comfort and convenience in farm homes. 19 p., diag., processed. Nebr. Agr. Ext. Serv. Circ. 726. Feb. 1930.
 Information on heating the farm homes, use of attic space, and built-in equipment.

INDEX AND SCALES

- Cottam, H. R. Qualitative measures of rural housing attitudes. Rural Sociol. 8: 191-192. June 1943.
 "Describes the validity and reliability of five qualitative ratings of attitudes toward housing" in rural Pennsylvania.
- Cottam, H.R. Housing scales for rural Pennsylvania. Journal of the American Statistical Association 38(224):406-416. December 1943.
 "Description of the reliability and the validity of three scales of varying length for measuring rural housing in Pennsylvania."
 Method of preparing scale is described.
- Hagood, M. J. Development of a 1940 rural-farm level of living index for counties. Rural Sociol. 8(2): 171-180.
 Describes the development of the index.
- Hagood, M. J. Rural level of living indexes for counties of the United States, 1940. 43 p., processed. Washington, D. C., U. S. Bureau of Agr. Econ. October 1943.
 Formulated to provide a more up-to-date measure of level of living than those previously used. Data from the 1940 Census of Population, Housing and Agriculture have been combined into an index of average level of living for the rural-farm families of each county and into a similar index

for rural non-farm families. These indexes are based on the principle of using information on the following items: Percentage of occupied dwelling units with fewer than 1.51 persons per room, percentage of dwelling units with radios, percentage of farms with gross income of more than \$600, percentage of farms reporting autos of 1936 or later models, median grade of school completed by persons 25 years of age and over.

Mosier, C. I. Measurement in rural housing; a preliminary report. Ed. and Psychol. Measurement 2(2): 139-152. April 1942.

Describes the Sloan Project in Housing Education at the University of Florida, which has investigated the "extent to which educational materials introduced through the school may exert an influence on the social, cultural and economic life of the community as a whole." The measurements made covered housing adequacy, attitudes and insight, information for pupils, and academic achievement. A Housing Index and a Housing Inventory were developed.

Sowell, W. H. The construction and standardization of a scale for the measurement of the socio-economic status of Oklahoma farm families. 88 p. Okla. Agr. and Mech. Col. Tech. Bul. 9. Stillwater, Oklahoma April 1940.

"...A yardstick for measuring the social and economic well-being of farm families."

LANDSCAPING

Beautifying the home grounds. 9 p. Nebr. Agr. Ext. Serv. Circ. 1250. 1928.
Plans for the home grounds and list of plants.

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